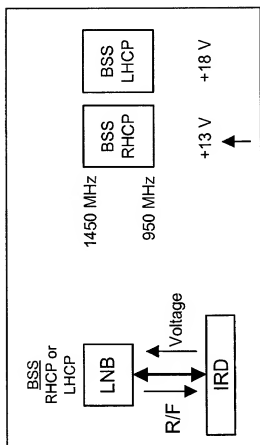


FIG. 1

FIG. 2 PRIOR ART

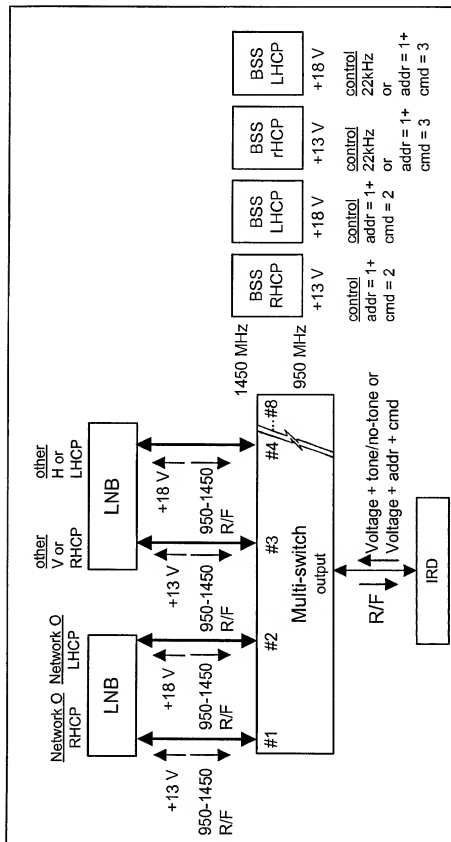


FIG. 3

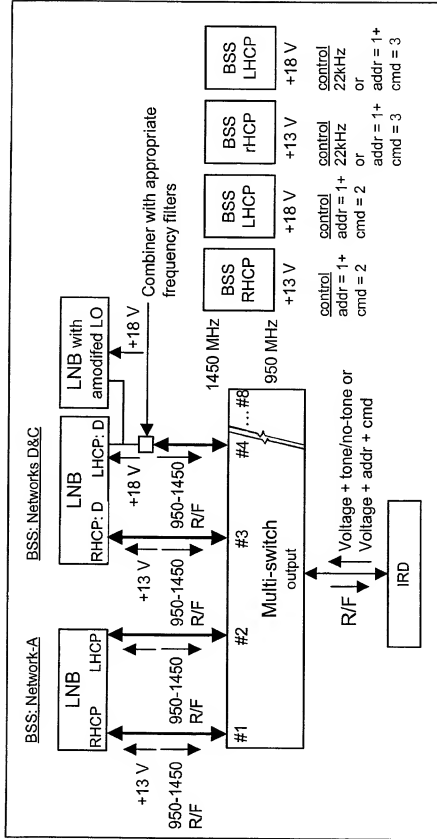


FIG. 4



FIG. 5

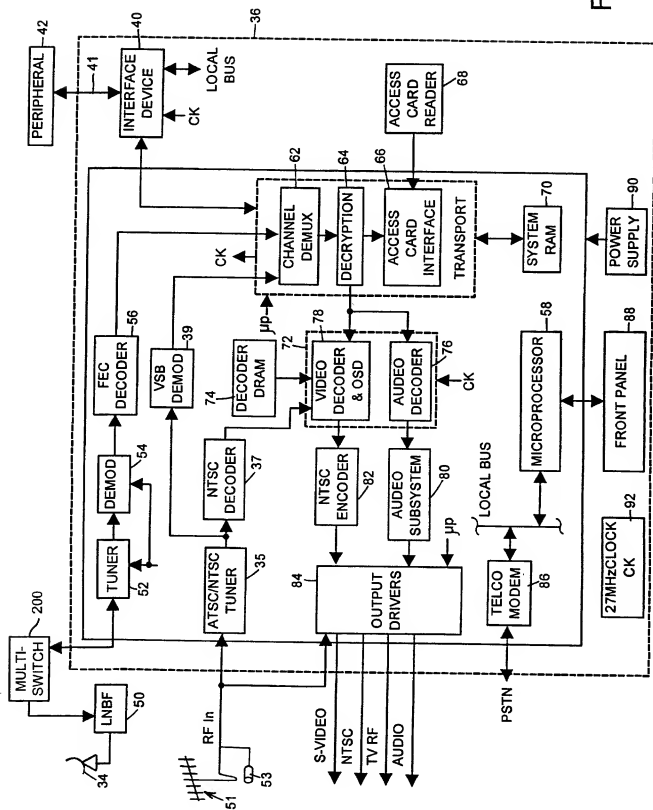


FIG. 6

FIG. 7

Simplified Control Signal	Simplified DISEqC Control Signal	Multi-switch (if present) Input Port Number Connected to Output Port	Non-stacked LNB Option 1 (Figure 2)	Non-stacked LNB Option 1 (Figure 3)	Non-stacked LNB Option 1 (Figure 4)	Non-stacked LNB Option 1 (Figure 4)	Stacked LNB Option 2 (Figure 5)
+13 V	+13V & addr= 0001 + cmd= 0x02	1	Network 0 RHCP	Network 0 RHCP	Network 0 RHCP	Network 0 RHCP	Network 0 RHCP & LHCP
+18 V	+18V & addr= 0001 + cmd= 0x02	2	Network 0 LHCP	Network 0 LHCP	Network 0 LHCP	Network 0 LHCP	Network 3 RHCP & Network 2&3LHCP
+13 V & 22KHz	+13V & addr= 0001 + cmd= 0x03	3	Not used	Network 1 VP	Network 3 RHCP	Network 3 RHCP	For future use
+18 V & 22KHz	+18V & addr= 0001 + cmd= 0x03	4	Not used	Network 1 HP	Network 3 LHCP	Network 2&3 LHCP	For future use
Not used	+13V & addr= 0001 + cmd= 0x04	5	Not used	Not used	Not used	Not used	For future use
Not used	+18V & addr= 0001 + cmd= 0x04	6	Not used	Not used	Not used	Not used	For future use
Not used	+13V & addr= 0001 + cmd= 0x05	7	Not used	Not used	Not used	Not used	For future use
Not used	+18V & addr= 0001 + cmd= 0x05	8	Not used	Not used	Not used	Not used	For future use

4 input
multi-
switch

7 / 19

8 input
multi-
switch

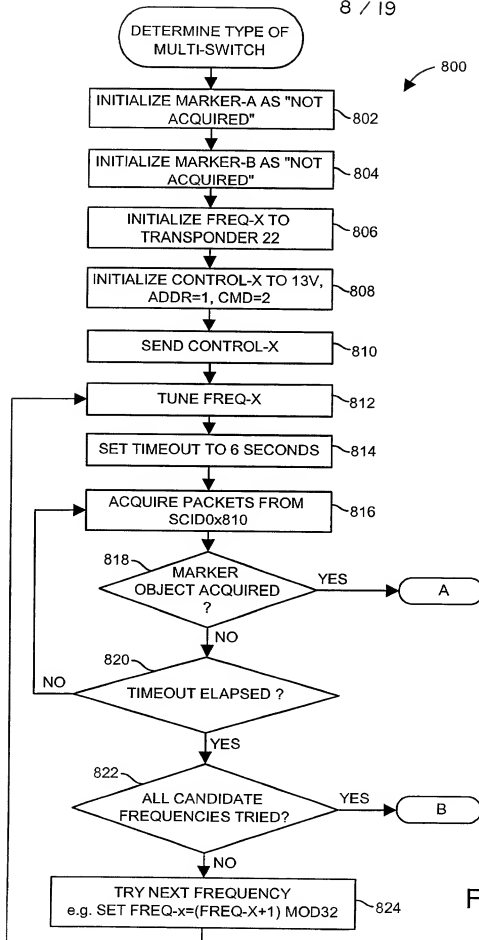
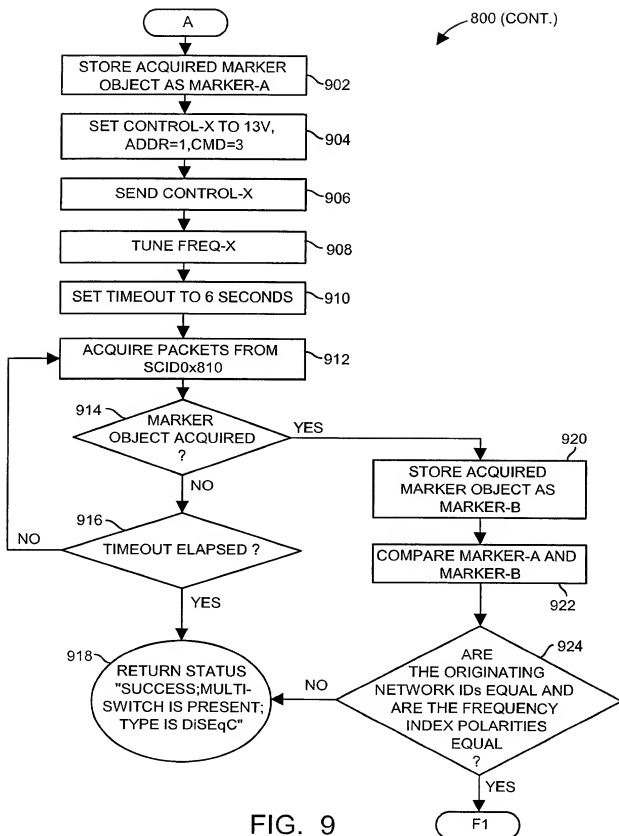


FIG. 8



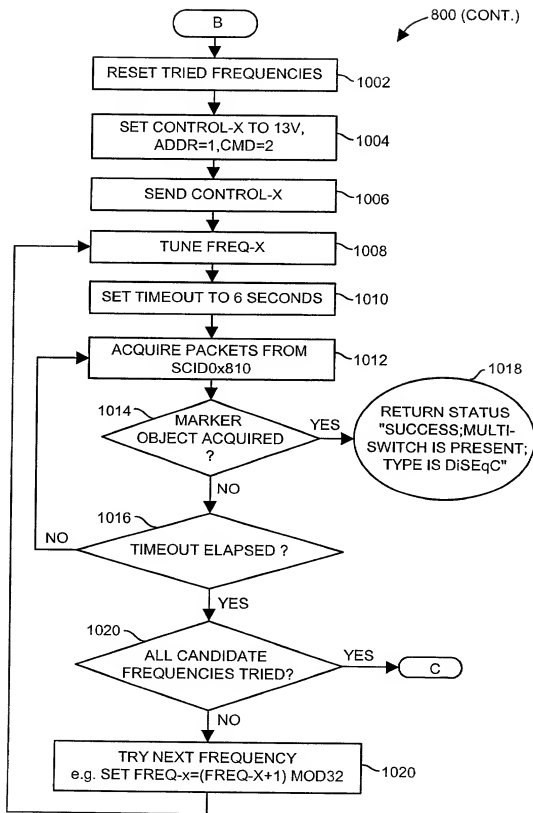


FIG. 10

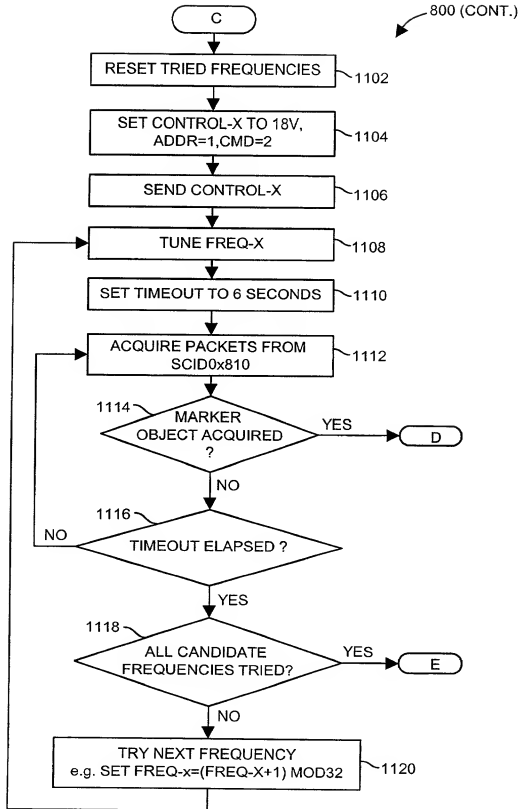
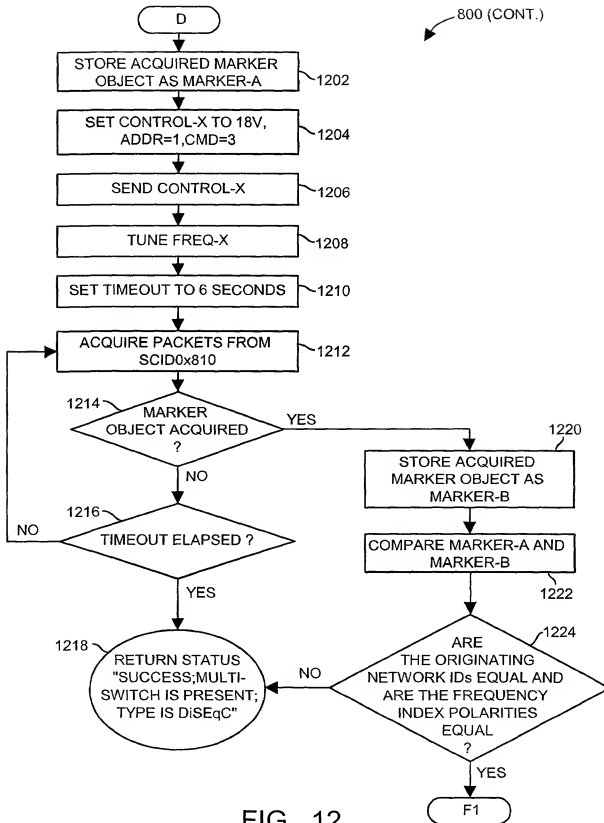


FIG. 11



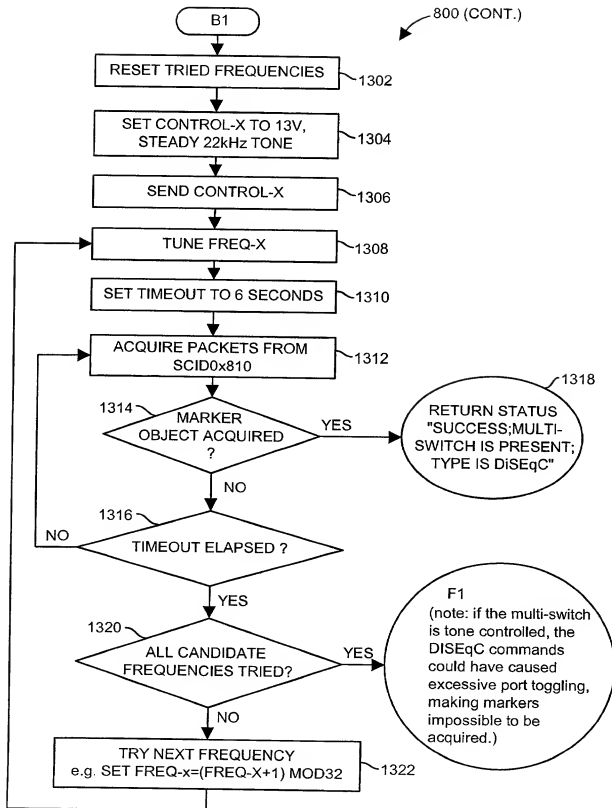


FIG. 13

F1

14 / 19

800 (CONT.)

INITIALIZE MARKER-A AS "NOT
ACQUIRED" 1402

INITIALIZE MARKER-B AS "NOT
ACQUIRED" 1404

INITIALIZE FREQ-X TO
TRANSPONDER 22 1406

INITIALIZE CONTROL-X TO 13V,
NO TONE 1408

SEND CONTROL-X 1410

TUNE FREQ-X 1412

SET TIMEOUT TO 6 SECONDS 1414

ACQUIRE PACKETS FROM
SCID0x810 1416

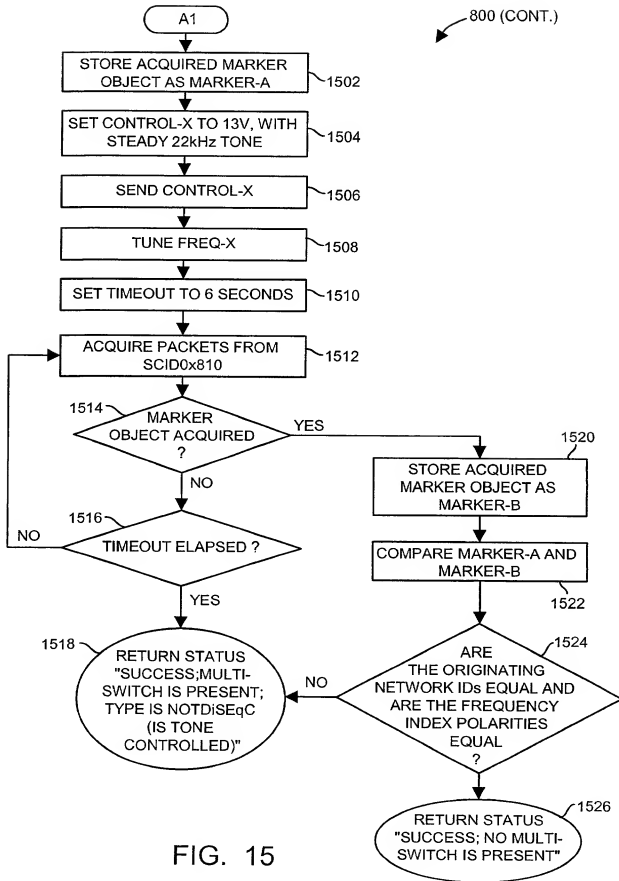
1418
MARKER
OBJECT ACQUIRED ?
YES → A1

1420
TIMEOUT ELAPSED ?
NO → 1412
YES → 1422

1422
ALL CANDIDATE
FREQUENCIES TRIED?
YES → B1
NO → 1424

TRY NEXT FREQUENCY
e.g. SET FREQ-X=(FREQ-X+1) MOD32 1424

FIG. 14



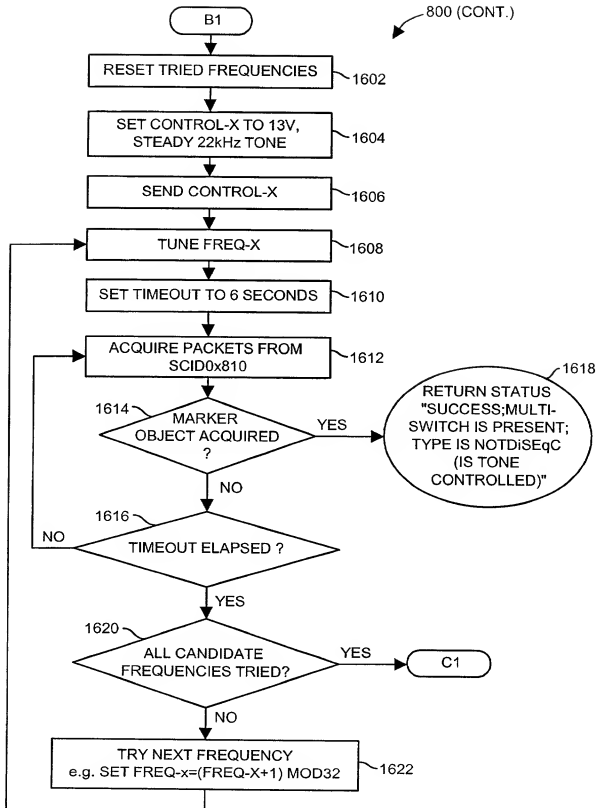


FIG. 16

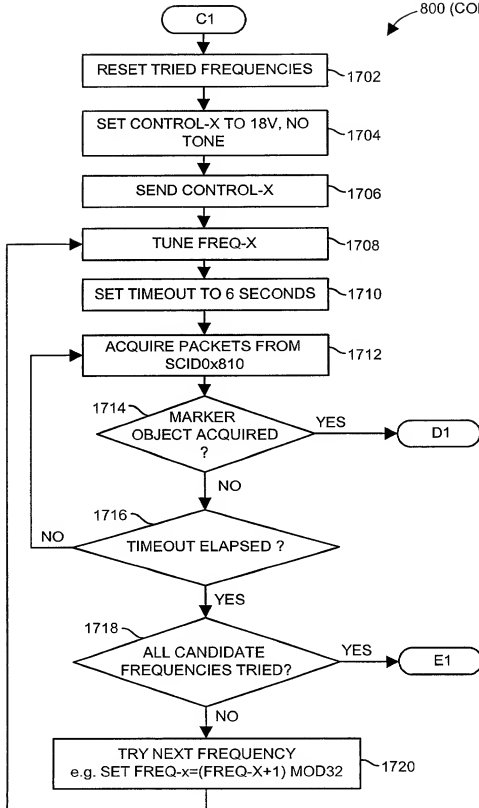
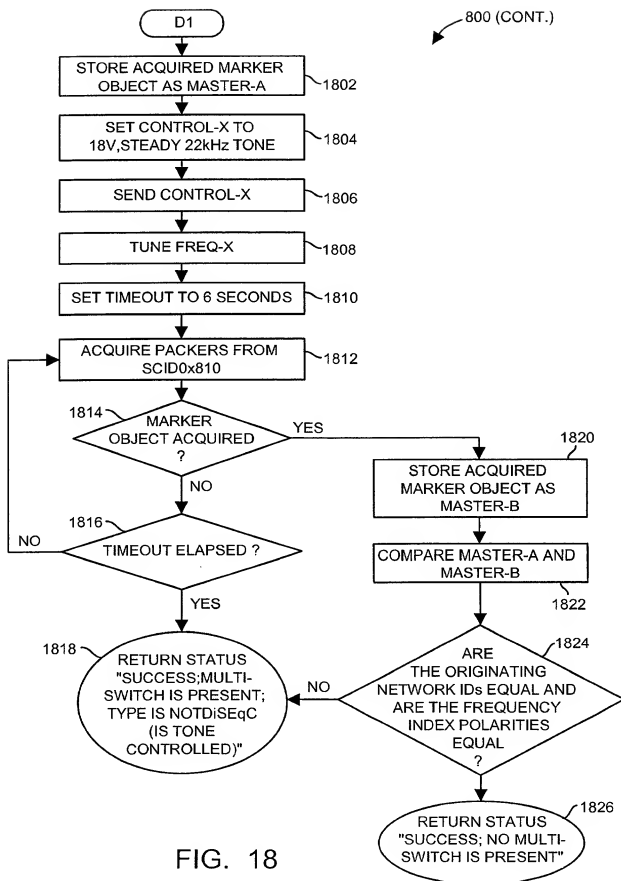


FIG. 17



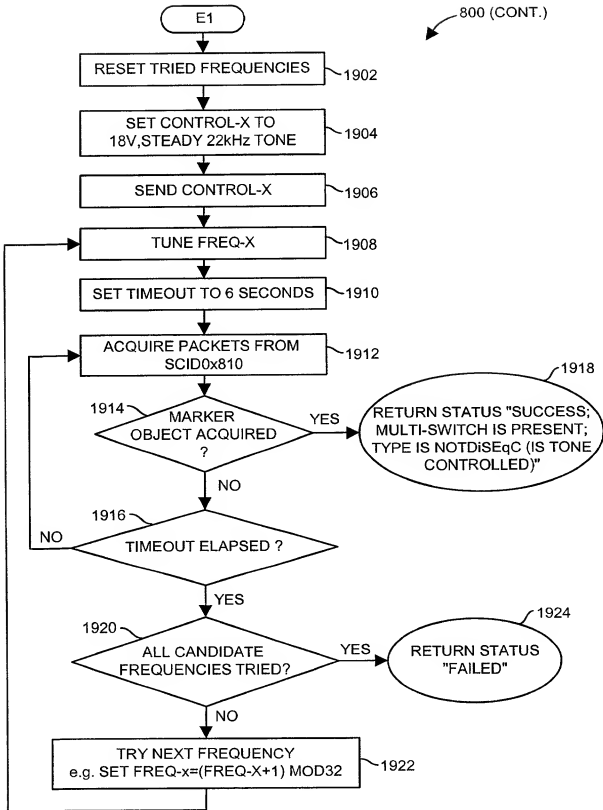


FIG. 19